

Application No.: 09/898,463
Amendment under 37 CFR 1.116
Reply to Office Action dated February 14, 2006
April 14, 2006

AMENDMENTS TO THE CLAIMS

Please substitute the following claims for the pending claims with the same numbers respectively:

Claim 1 (Currently amended): A medical examination system for scheduling an appointment for patients comprising:

a plurality of wireless display devices that have a display part and a communication part held by each patient waiting for a medical examination; and

a server including a plurality of displays, said plurality of displays being capable of displaying guidance information including appointments included in a scheduler and displaying information from said respective wireless display devices, and a wireless communication means for communicating with said respective wireless display devices, wherein said scheduler includes:

a waiting queue means for individual medical examination items for forming waiting queues for each of a plurality of medical examination items and sequentially queuing the medical

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examination appointments of the patients, and a waiting queue means for individual patients for forming waiting queues for each patient and sequentially queuing medical examination items for which appointments are scheduled,

said scheduler includes means for scheduling a first appointment for a first medical examination of said medical examination items so that an available time to start said first medical examination on said medical examination items is calculated, [[and]]

said scheduler includes means for scheduling at least a second appointment for a second medical examination of said medical examination items so that an available time to start said second medical examination on said medical examination items is calculated after the first appointment which has been previously confirmed with respect to remaining queues of said waiting queue means for individual medical items; and

said scheduler includes means for maintaining an unconfirmed state of an entire appointment process in case an interval between a starting time of the first appointment and a completion time of an appointment for a last medical examination item becomes at least equal to a predetermined amount of time and one

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of said medical examination items starts with an empty queue time period and means for changing the empty queue time period to a void queue time period that cannot be utilized again, and

means for repeating an appointment process and means for confirming the entire appointment process when an interval between the starting time of the first appointment and the completion time of the appointment for said last medical examination item becomes less than the predetermined amount of time and one of said medical examination items starts with a non-empty queue time period,

wherein said server includes means for forming information concerning medical examination guidance including an individual medical examination order, a starting time and an order of said medical examination items based on said waiting queue means for individual patients and said waiting queue means for medical examination items, on one of said plurality of displays of said server for respective patients, and

wherein said wireless display devices display the waiting queues for the respective patient as a queue data structure and guidance relating to a medical examination route in a form of at least one of dynamic maps and directions to a next scheduled

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medical examination item appointment to individual patients via
said wireless communication means of said server.

Claim 2 (Cancelled):

Claim 3 (Currently amended): The medical examination system
according to claim [[2]] 1,

wherein said server includes means for allowing a database
of said server to be accessed from an external network.

Claims 4-9 (cancelled):

Claim 10 (Previously presented): The medical examination
system according to claim 11, said medical examination system
further comprises:

a personal computer installed in a medical examination site,
wherein said personal computer comprises a communication means
for communicating at close range with the wireless display device
carried by a patient, a communication means for communicating
with said server and a control means for outputting information

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relating to at least one of arrival of the patient and completion of the medical examination of the patient.

Claim 11 (Currently amended): A medical examination system for scheduling an appointment for patients comprising:

a plurality of wireless display devices that have a display part and a communication part held by each patient waiting for a medical examination; and

a server including a plurality of displays, said plurality of displays being capable of displaying guidance information including appointments included in a scheduler and displaying information from said respective wireless display devices, and a wireless communication means for communicating with said respective wireless display devices, wherein said scheduler includes:

a waiting queue means for individual medical examination items for forming waiting queues for each of a plurality of medical examination items and sequentially queuing the medical examination appointments of the patients, and a waiting queue means for individual patients for forming waiting queues for each

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patient and sequentially queuing medical examination items for which appointments are scheduled,

said scheduler includes means for scheduling a first appointment for a first medical examination of said medical examination items so that an available time to start said first medical examination on said medical examination items is calculated, [[and]]

said scheduler includes means for scheduling at least a second appointment for a second medical examination of said medical examination items so that an available time to start said second medical examination on said medical examination items is calculated after the first appointment which has been previously confirmed with respect to remaining queues of said waiting queue means for individual medical items, [[:]] and

said scheduler includes means for maintaining an unconfirmed state of an entire appointment process in case an interval between a starting time of the first appointment and a completion time of an appointment for a last medical examination item becomes at least equal to a predetermined amount of time and one of said medical examination items starts with an empty queue time

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period and means for changing the empty queue time period to a void queue time period that cannot be utilized again, and

means for repeating an appointment process and means for confirming the entire appointment process when an interval between the starting time of the first appointment and the completion time of the appointment for said last medical examination item becomes less than the predetermined amount of time and one of said medical examination items starts with a non-empty queue time period, and

said scheduler further includes means for determining that a completion time for an appointment for one of said medical examination items is delayed for at least an average time required for the medical examination on said one of said medical examination items and means for utilizing an empty queue time period in said waiting queue means for individual medical examination items so that a time for a next appointment is available for each of said medical examination items, said scheduler further includes means for representing a starting time as a leading queue when an empty queue time period exists within said queue and for representing a starting time when no empty queue time periods exist by the time immediately after the final

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patient completes a medical examination appointment so that the time is registered with said waiting queue means for individual patients and said waiting queue means for individual medical examination items by calculating the time so as to start from a time when an appointment is available in an earliest medical examination item,

wherein said server includes means for forming information concerning medical examination guidance including an individual medical examination order, a starting time and an order of medical examination items based on said waiting queue means for individual patients and said waiting queue means for medical examination items, on one of said plurality of displays of said server for respective patients, and

wherein said wireless display devices display the waiting queues for the respective patient as a queue data structure and guidance relating to a medical examination route in a form of at least one of dynamic maps and directions to a next scheduled medical examination item appointment to individual patients via said wireless communication means of said server.

Claim 12 (Cancelled):

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Claim 13 (Currently amended): The medical examination system according to claim [[12]] 11,

wherein said server includes means for allowing a database of said server to be accessed from an external network.

Claims 14-18 (cancelled):

Claim 19 (Currently amended): A method for scheduling an appointment of a medical examination for patients, said method comprising the steps of:

providing a plurality of wireless display devices, having a display part and a communication part, to a patient waiting for a the medical examination;

providing a server including a plurality of displays, the plurality of displays being capable of displaying guidance information including appointments included in a scheduler and displaying information from the respective wireless display devices, a wireless communication means for communicating with the respective wireless display devices,

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forming waiting queues for individual medical examination items, and

forming waiting queues for each patient,
scheduling a first appointment for a first medical examination of the medical examination items so that an available time to start the first medical examination on the medical examination items is calculated; and

scheduling at least a second appointment for a second medical examination of the medical examination items so that an available time to start the second medical examination on the medical examination items is calculated after the first appointment which has been previously confirmed with respect to remaining queues of the waiting queues for individual medical items;

maintaining an unconfirmed state of an entire appointment process in case an interval between a starting time of the first appointment and a completion time of an appointment for a last medical examination item becomes at least equal to a predetermined amount of time and one of said medical examination items starts with an empty queue time period and means for

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changing the empty queue time period to a void queue time period
that cannot be utilized again, and

repeating an appointment process and means for confirming
the entire appointment process when an interval between the
starting time of the first appointment and the completion time of
the appointment for said last medical examination item becomes
less than the predetermined amount of time and one of said
medical examination items starts with a non-empty queue time
period;

providing information concerning medical examination
guidance including an individual medical examination order, a
starting time and an order of the medical examination items based
on the waiting queue for individual patients and the waiting
queue for medical examination items, on one of the plurality of
displays of the server for respective patients; and

displaying the waiting queues for the respective patient as
a queue data structure and guidance relating to a medical
examination route in a form of at least one of dynamic maps and
directions to a next scheduled medical examination item
appointment to individual patients from the server.